

Figure 1
Constellation of Satellites

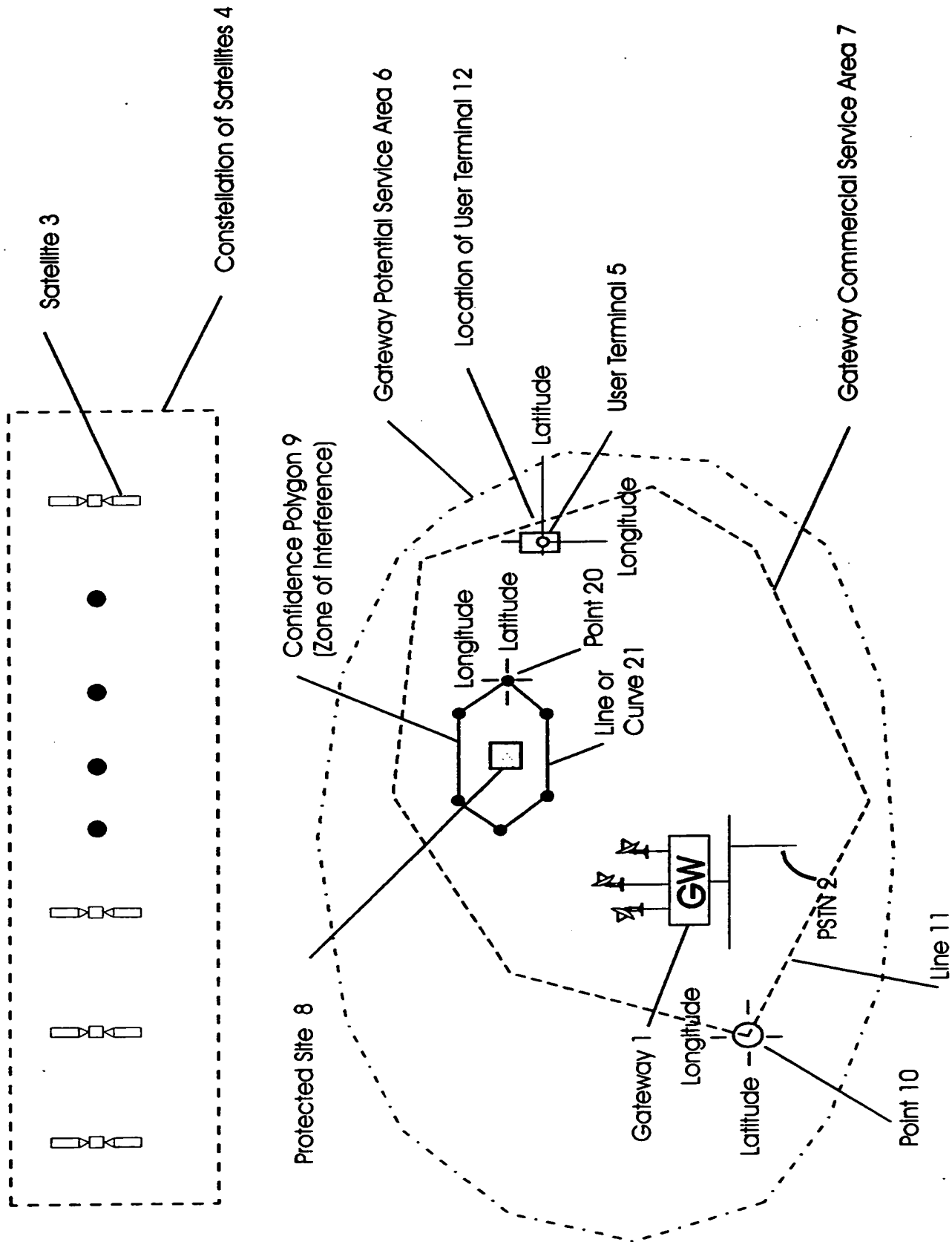


Figure 2

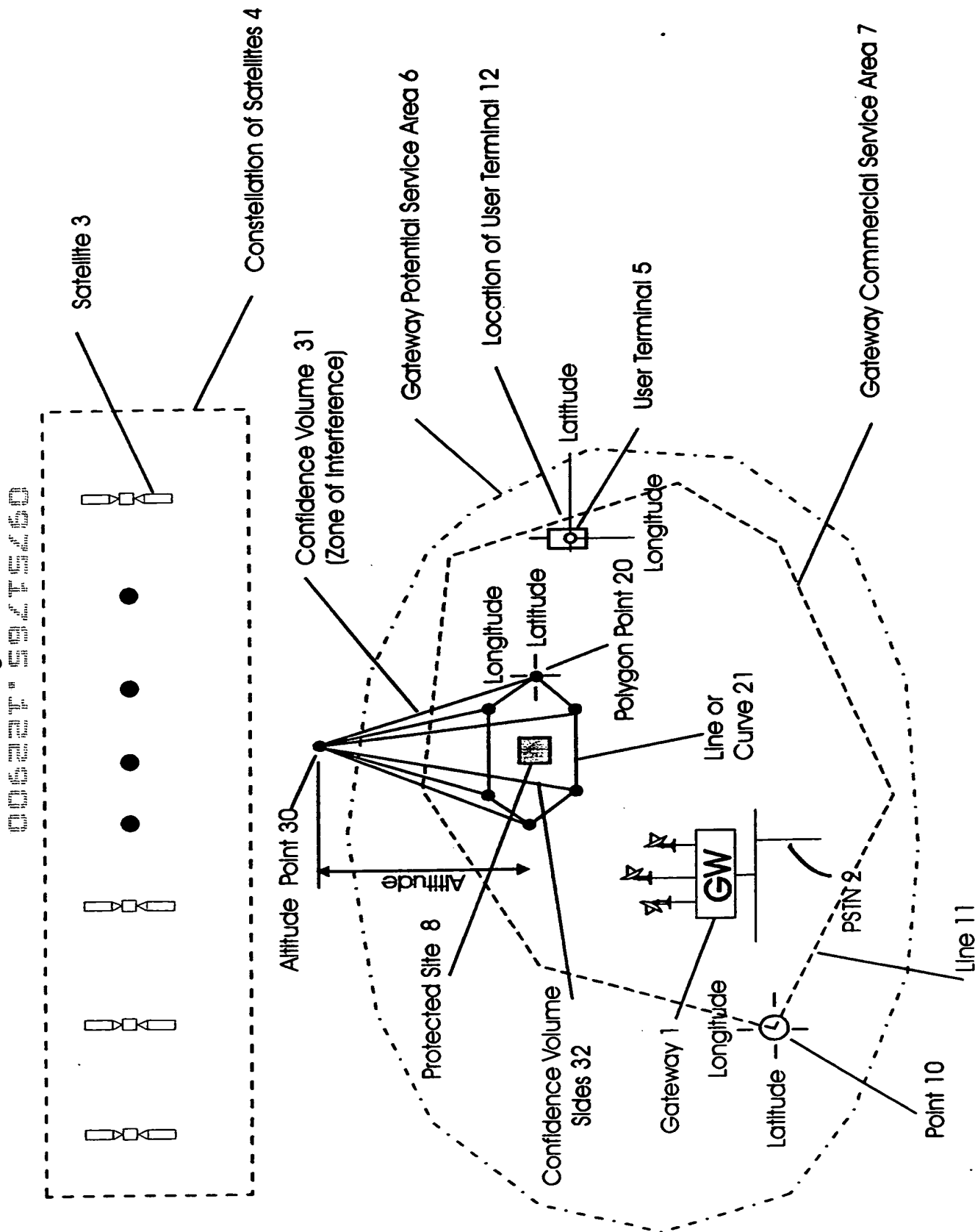


Figure 3

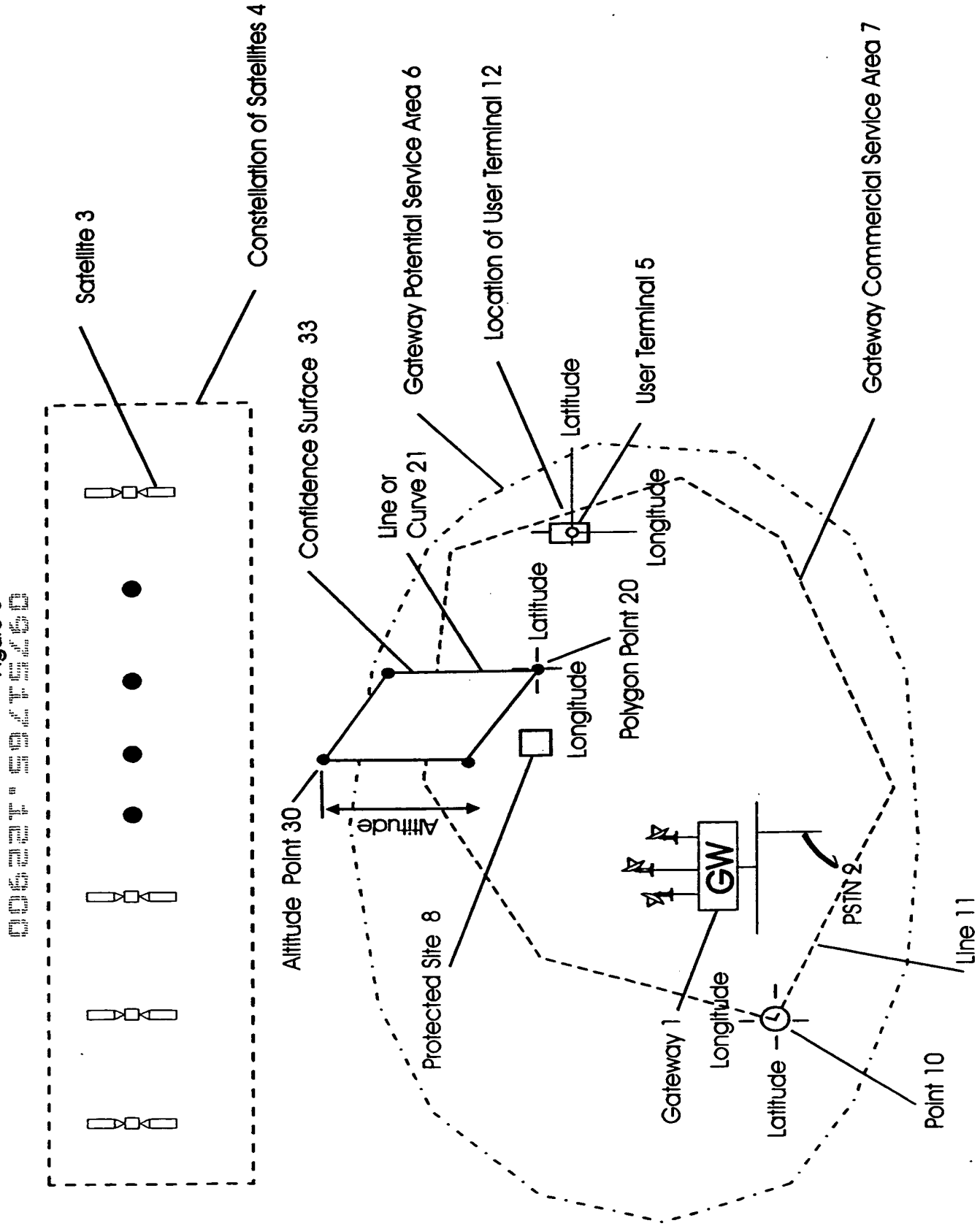
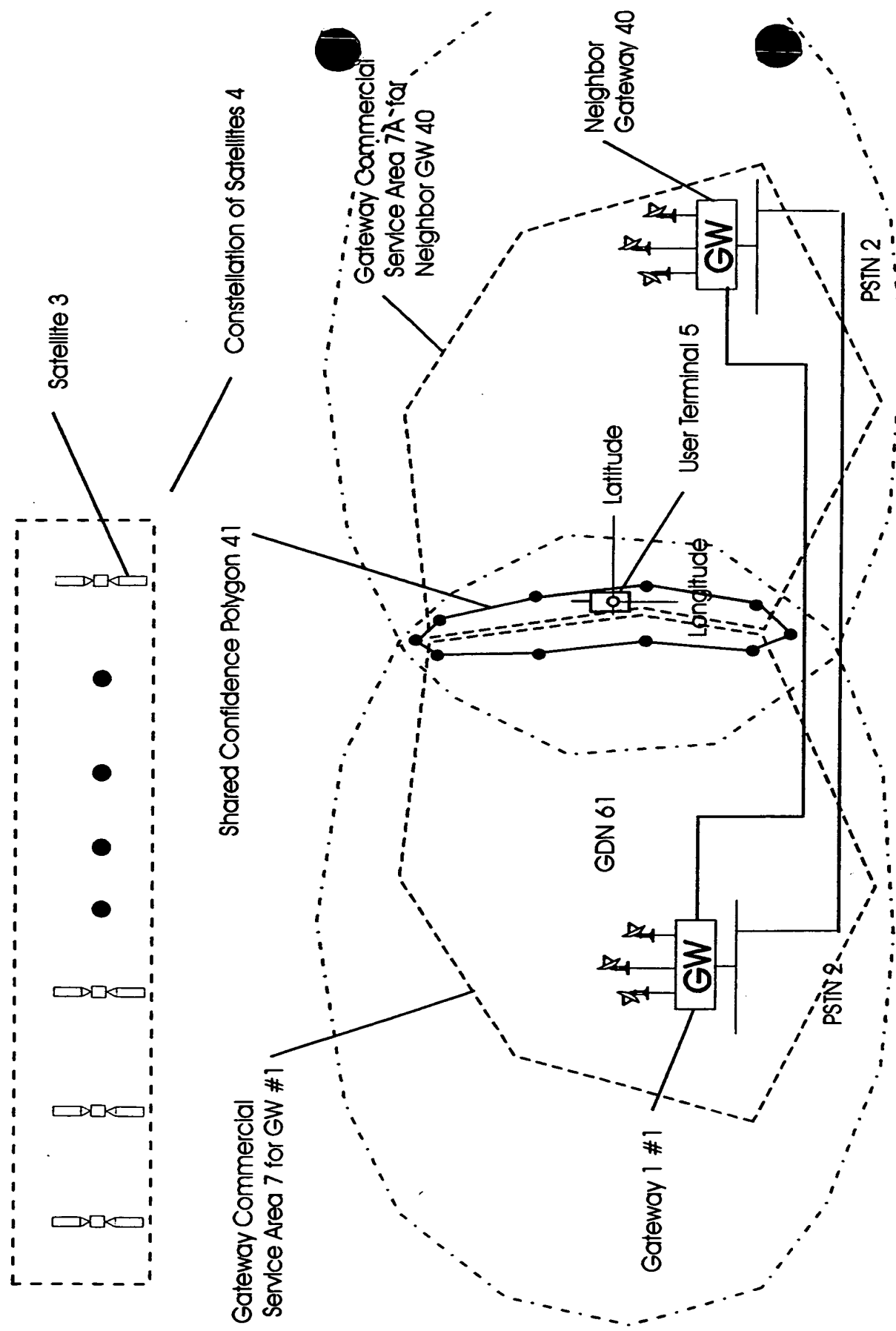


Figure 4



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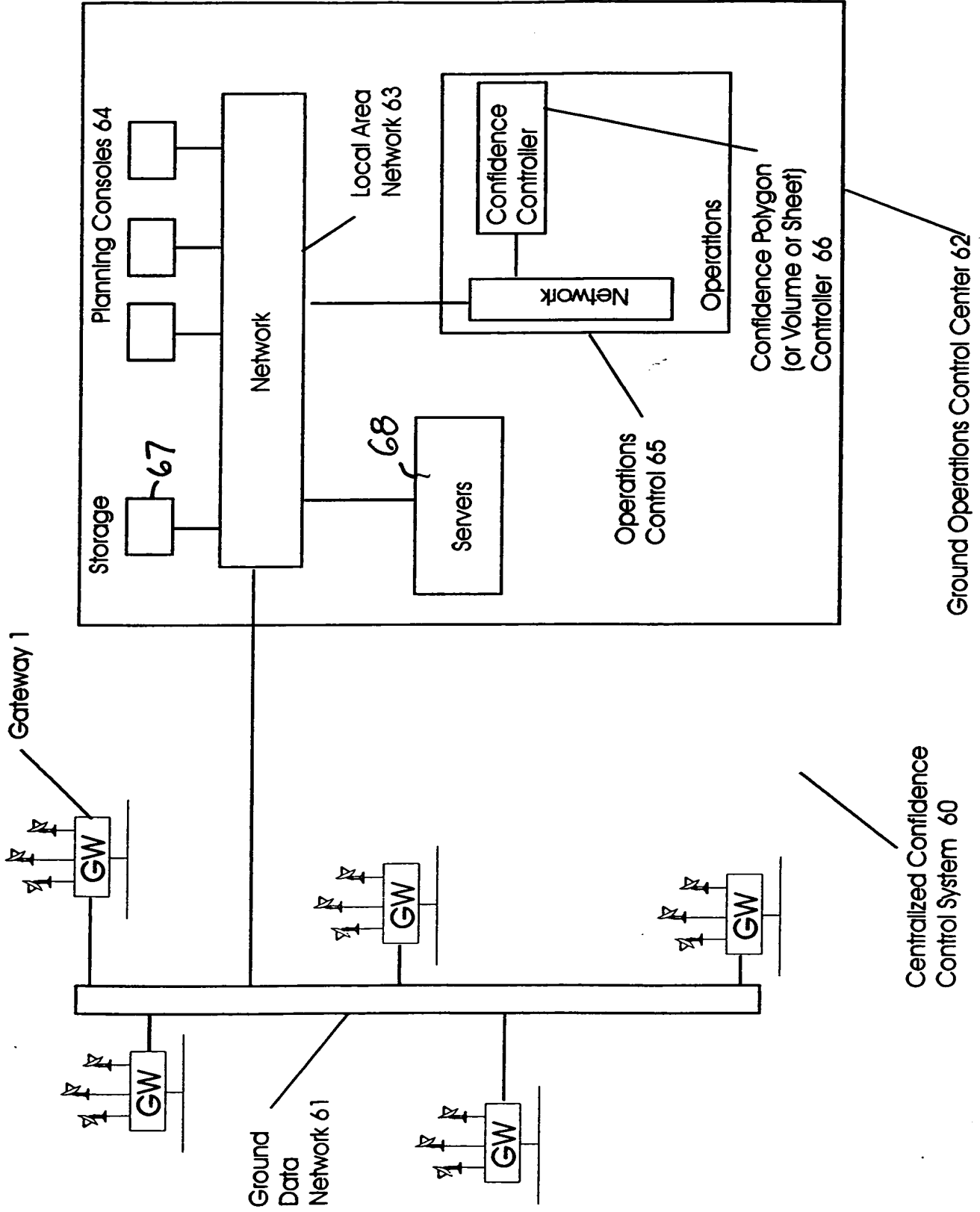


Figure 6
Gateway Sub System

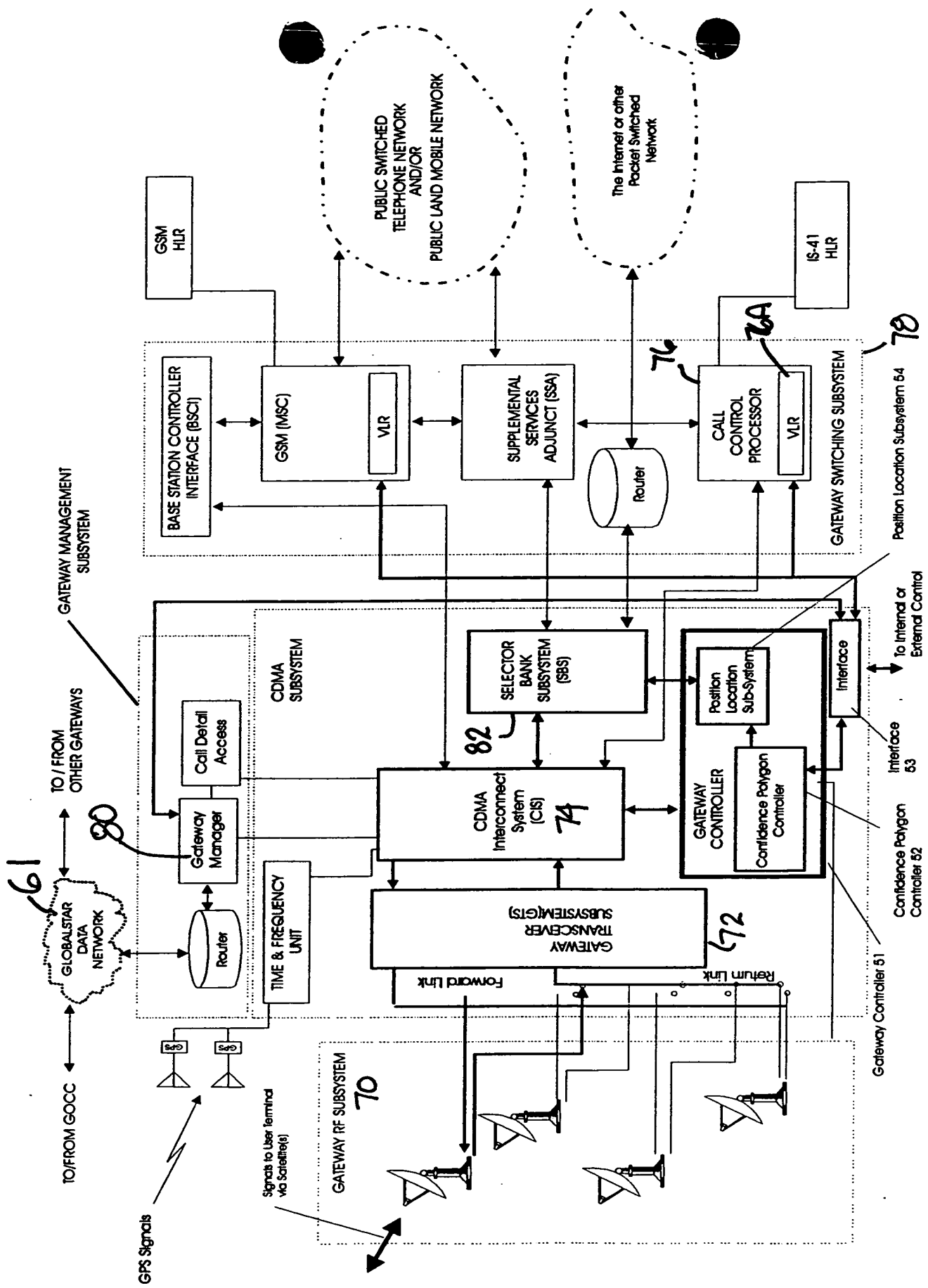
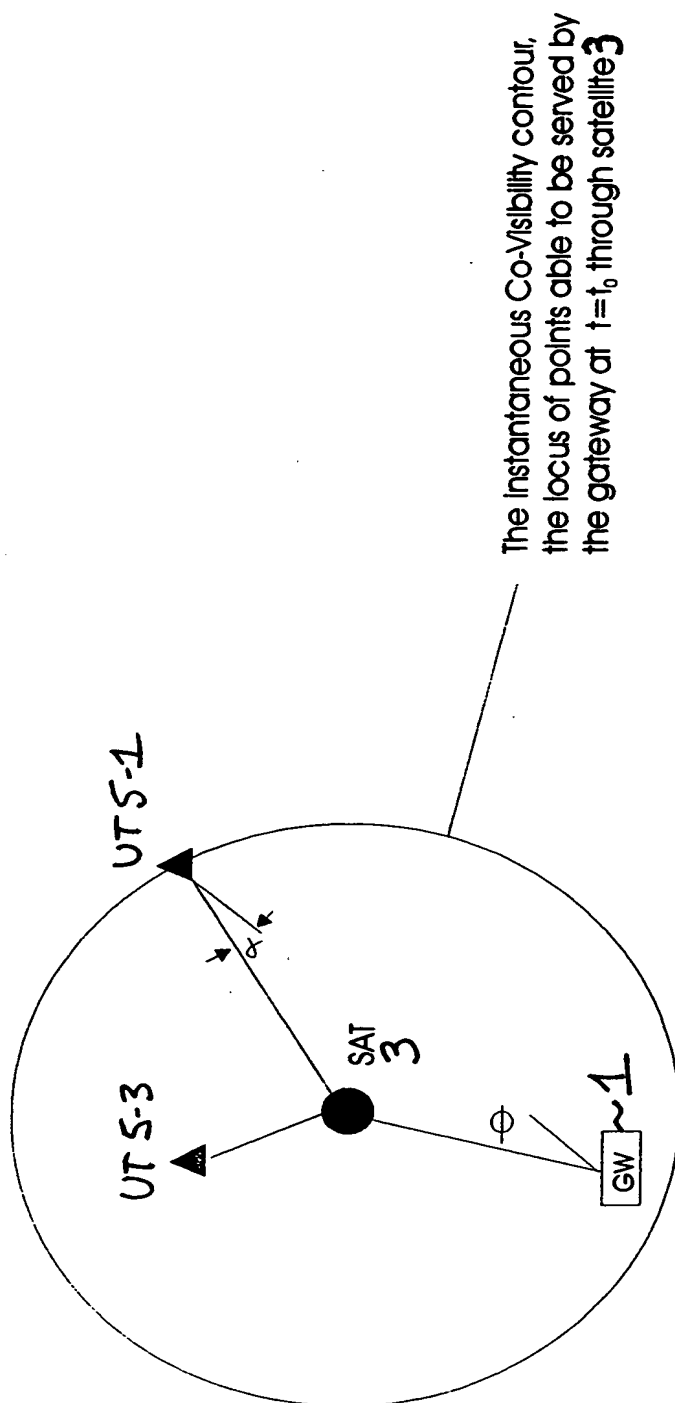


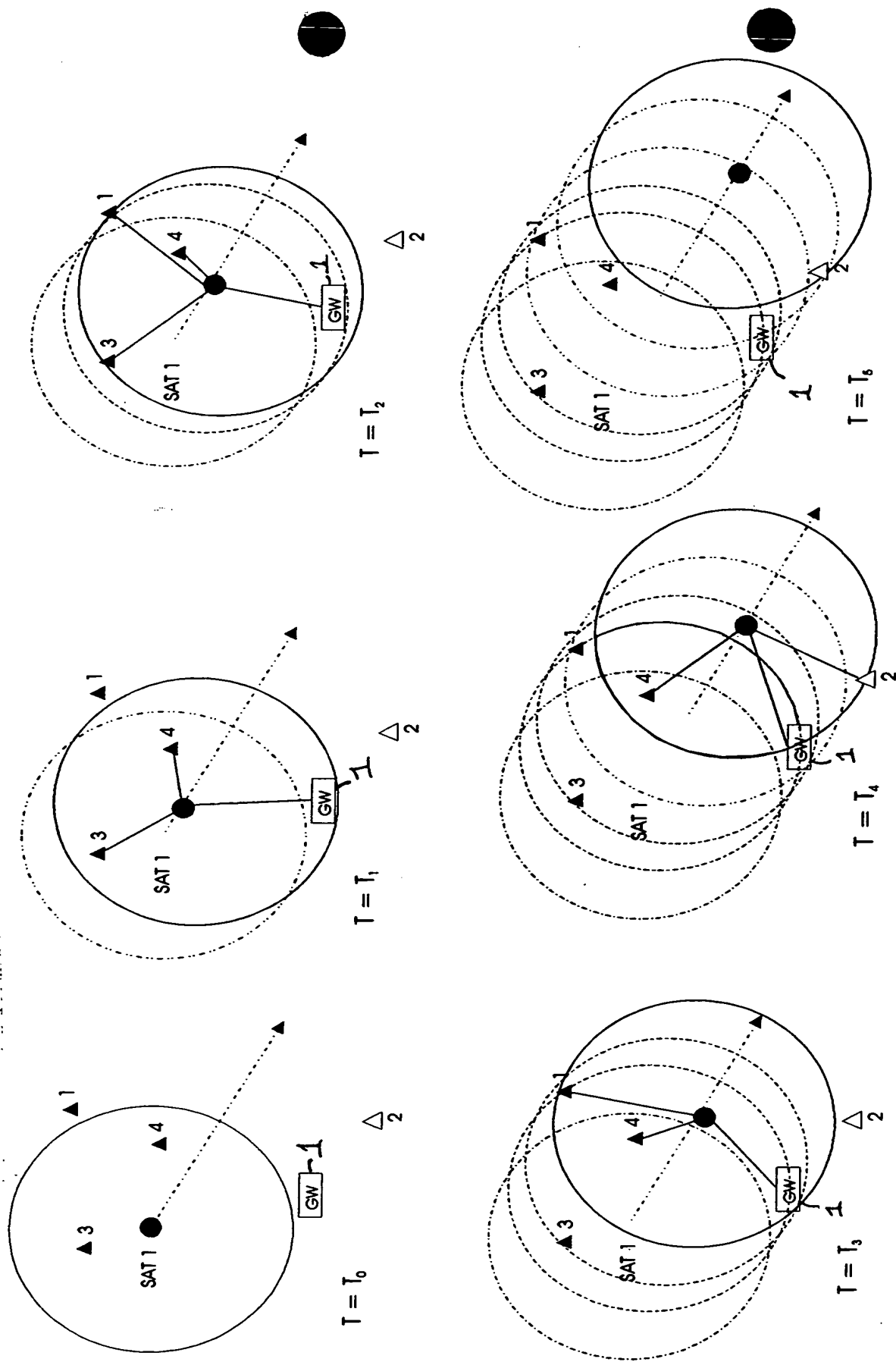
FIG. 7



The instantaneous Co-Visibility contour,
the locus of points able to be served by
the gateway at $t=t_0$ through satellite **3**

Δ
UTS-2

CONSTANT Fig. 8



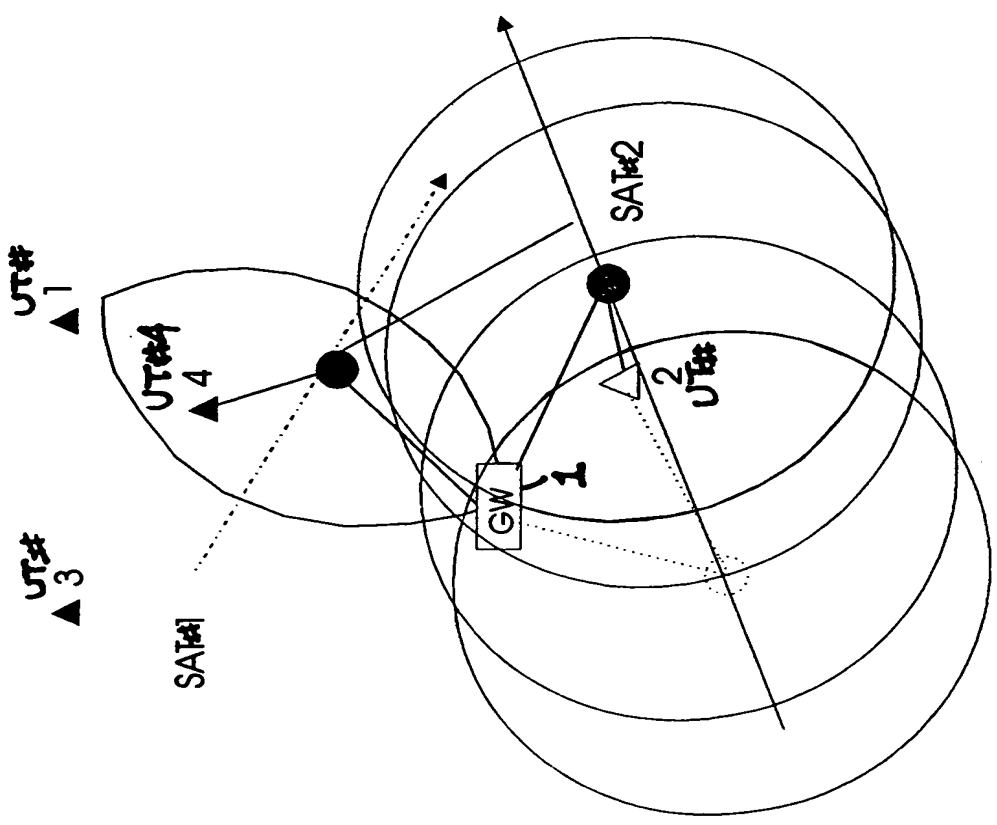


FIG. 9A

Path of the Coverage of Satellite 2 during the period $t=t_1$ to t_4

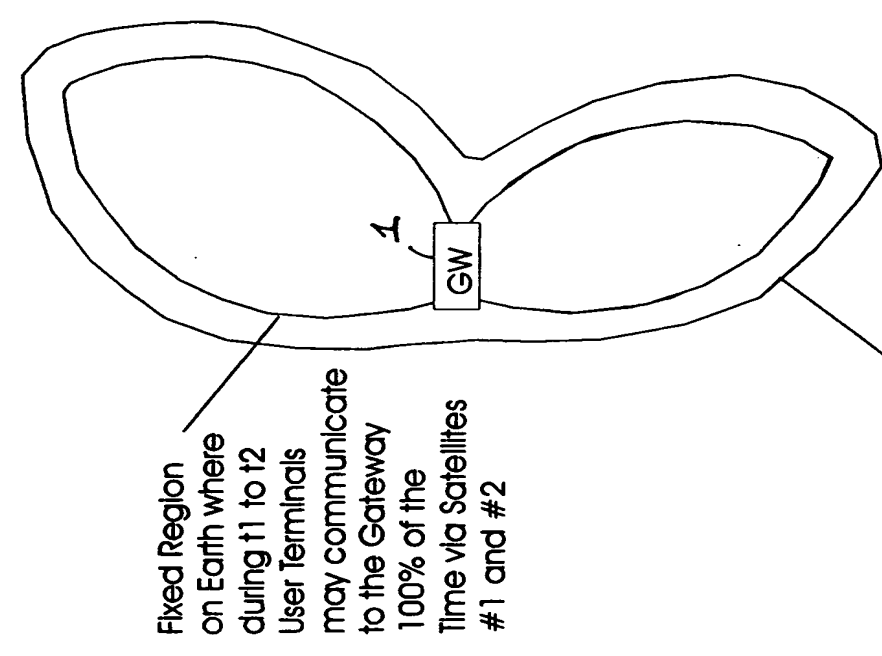
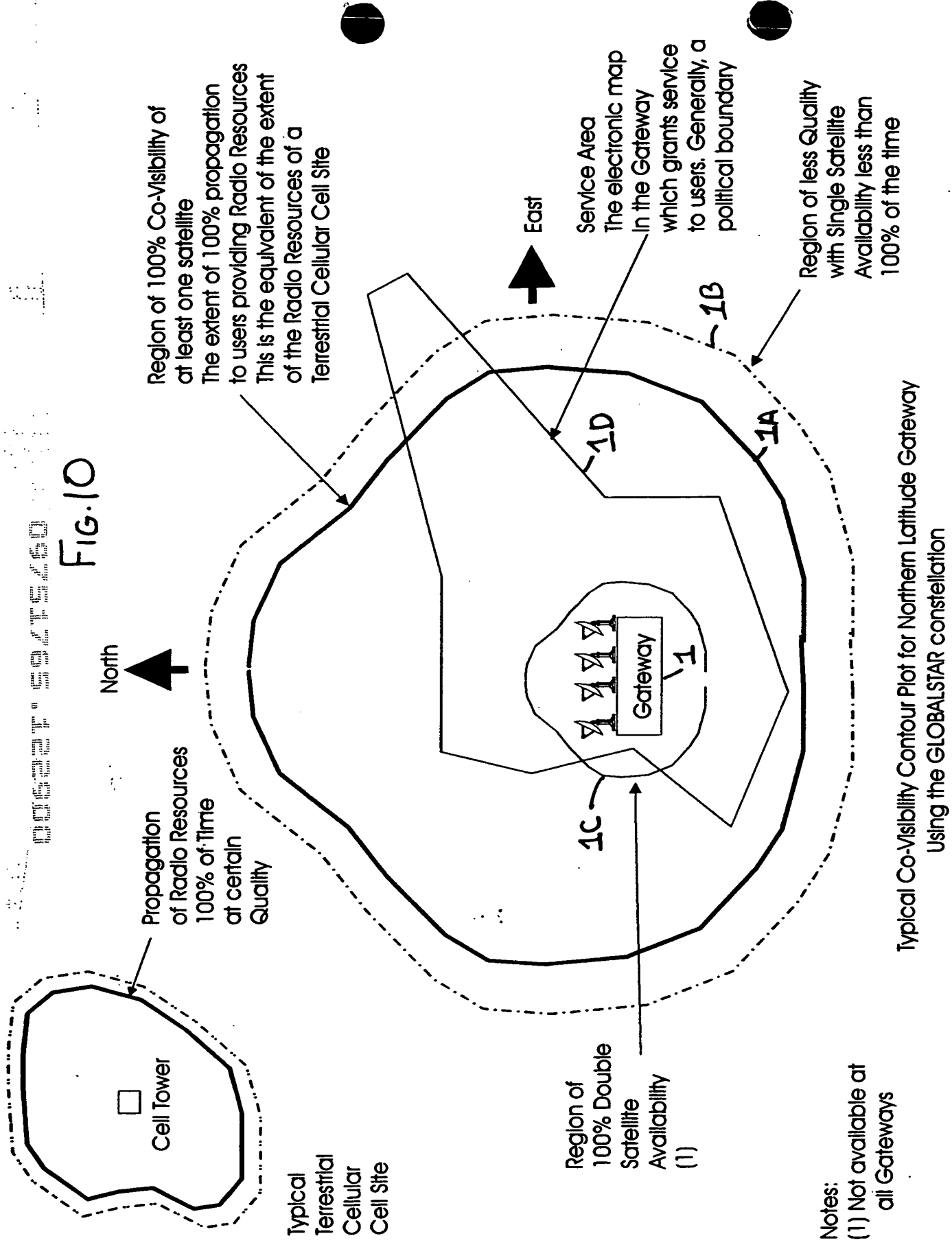


FIG. 9B

Fixed Region on Earth where during t_1 to t_2 User Terminals may communicate to the Gateway 95% of the time

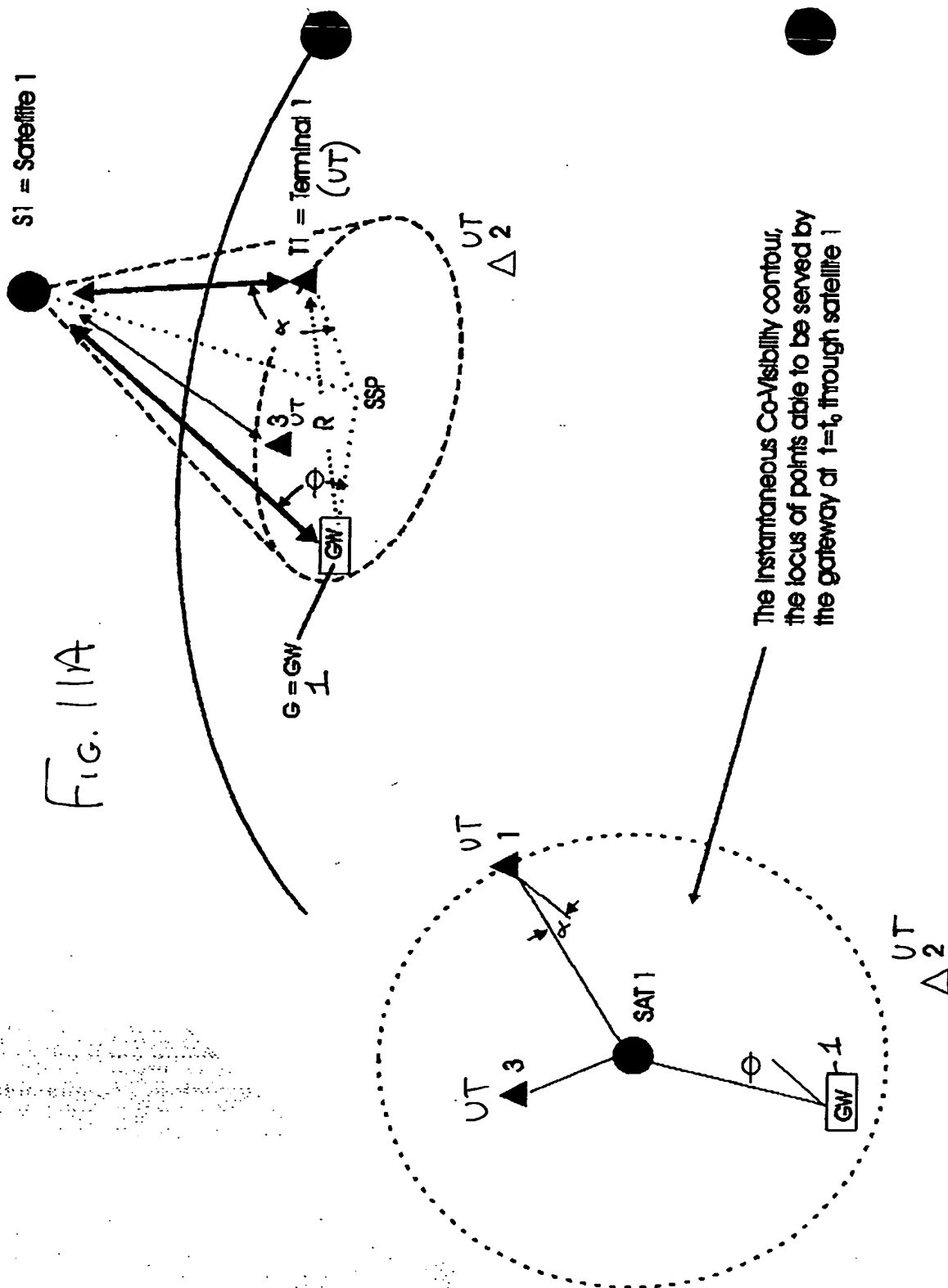


Notes:
 (1) Not available at all Gateways

FIG. 10

THE FORD

Fig. 11A





2 IAS

T1 = Terminal 1

2
△

• • •

2

2

1

—

!

FIG. 2

6

1

—

•

SAT 2

SAT 1

Δ 2

The Instantaneous Co-Visibility contour, the locus of points able to be served by the gateway at $t=t_0$ through satellite 1

Satellite Antenna Beam Radiation pattern projected onto the surface of the earth. Not "coverage" yet. Since Terminal 1 cannot form links through it to the Gateway

FIG. 11B

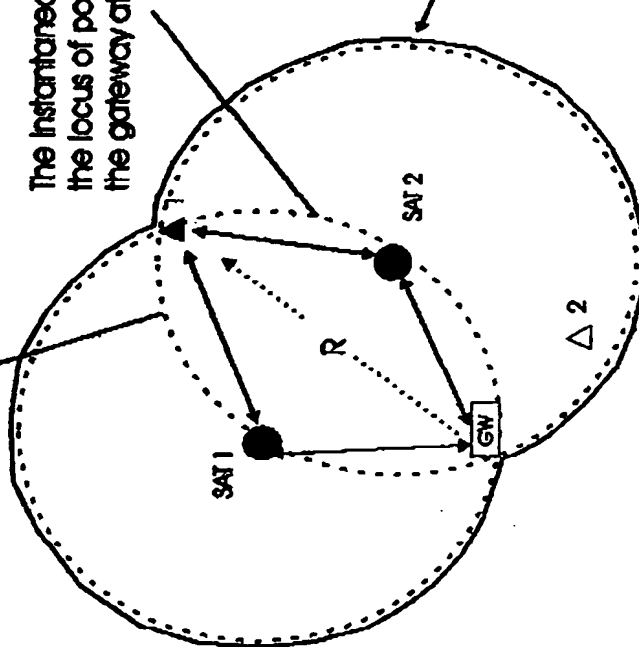
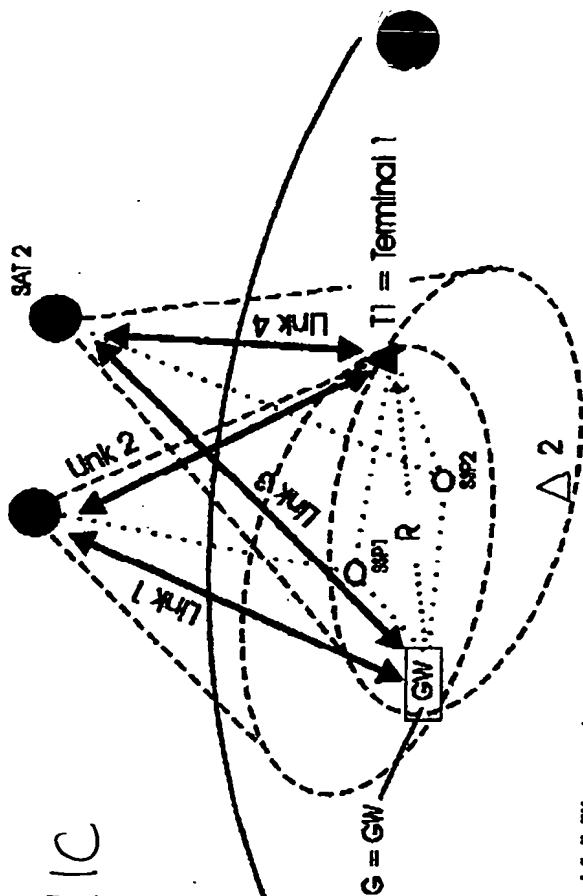
S1 = Satellite 1

FIG. 11C

The instantaneous Co-Visibility contour
the locus of points able to be served by
the gateway at $t = t_1$ through satellite 2

The instantaneous Co-Visibility contour
the locus of points able to be served by
the gateway at $t = t_1$ through satellite 1

The instantaneous combined Co-Visibility contour,
the locus of points able to be served by
the gateway at $t=t_1$ through satellite 1 and 2



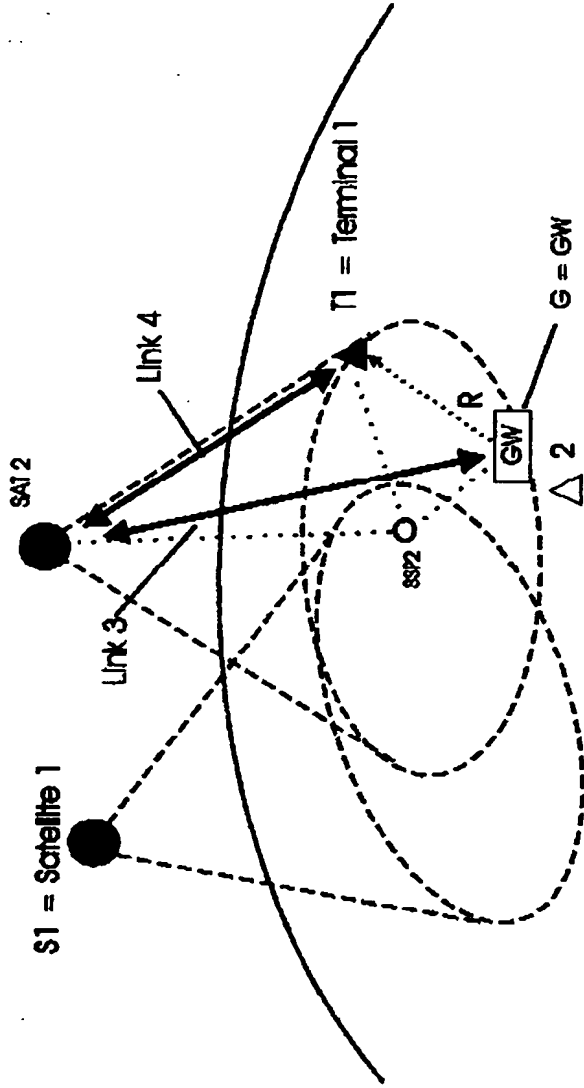
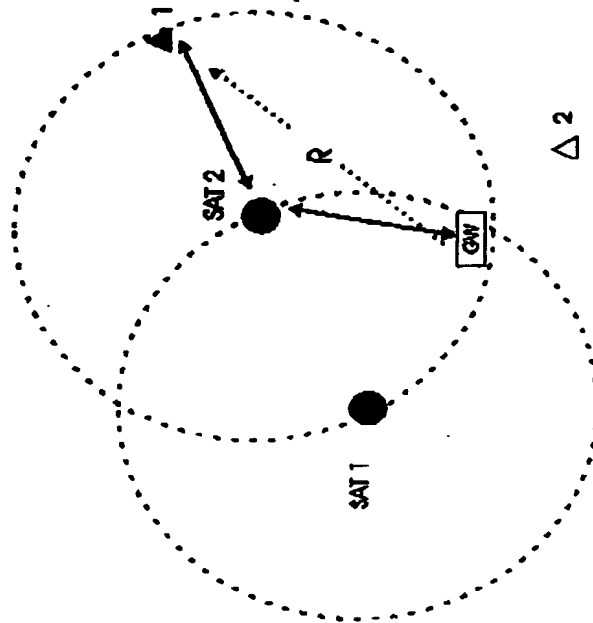


FIG. 11D



The Instantaneous Co-Visibility contour
the locus of points able to be served by
the gateway at $t = 2$ through satellite 2

SECRET

Fig. 11

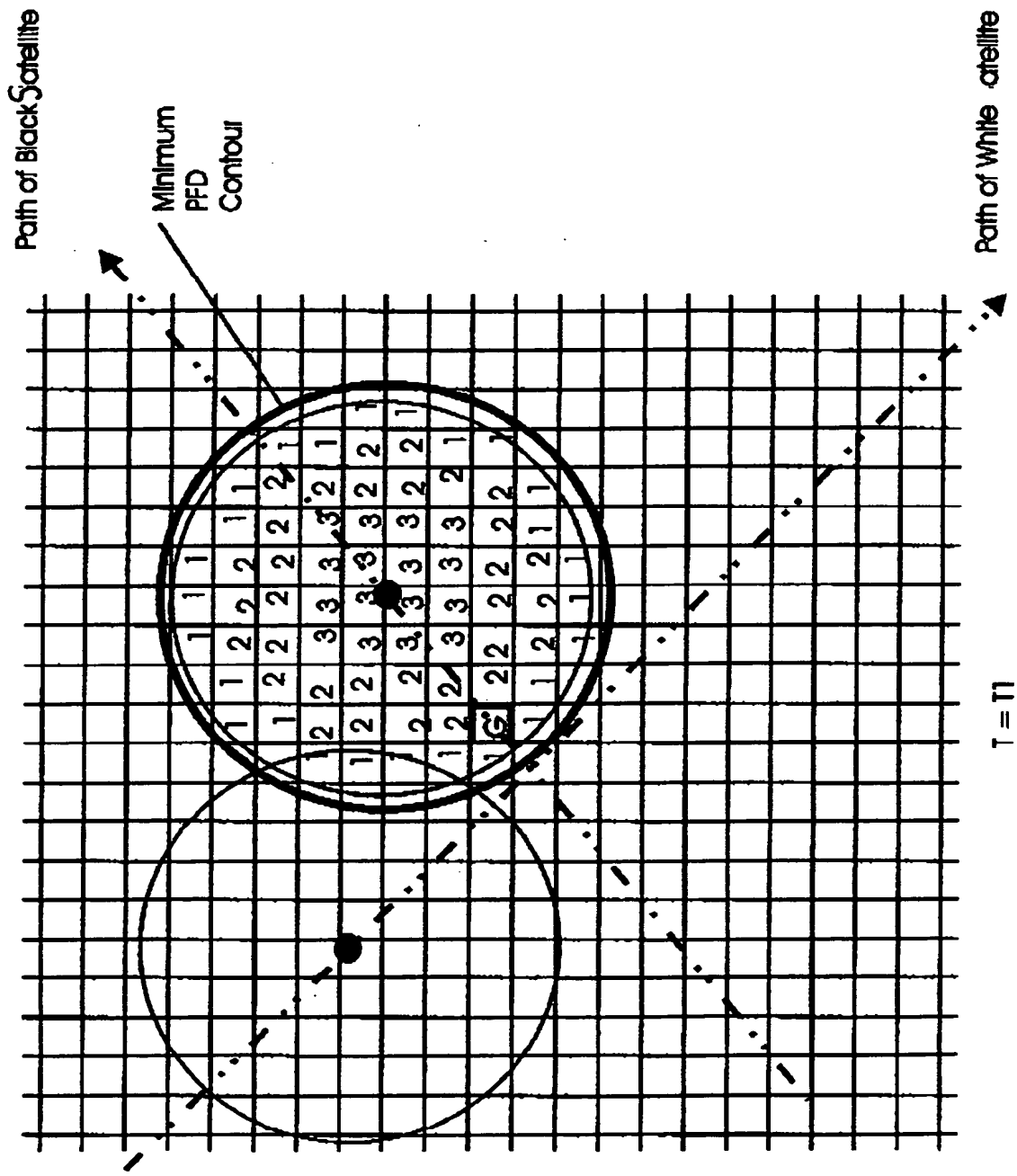


FIG. 11F

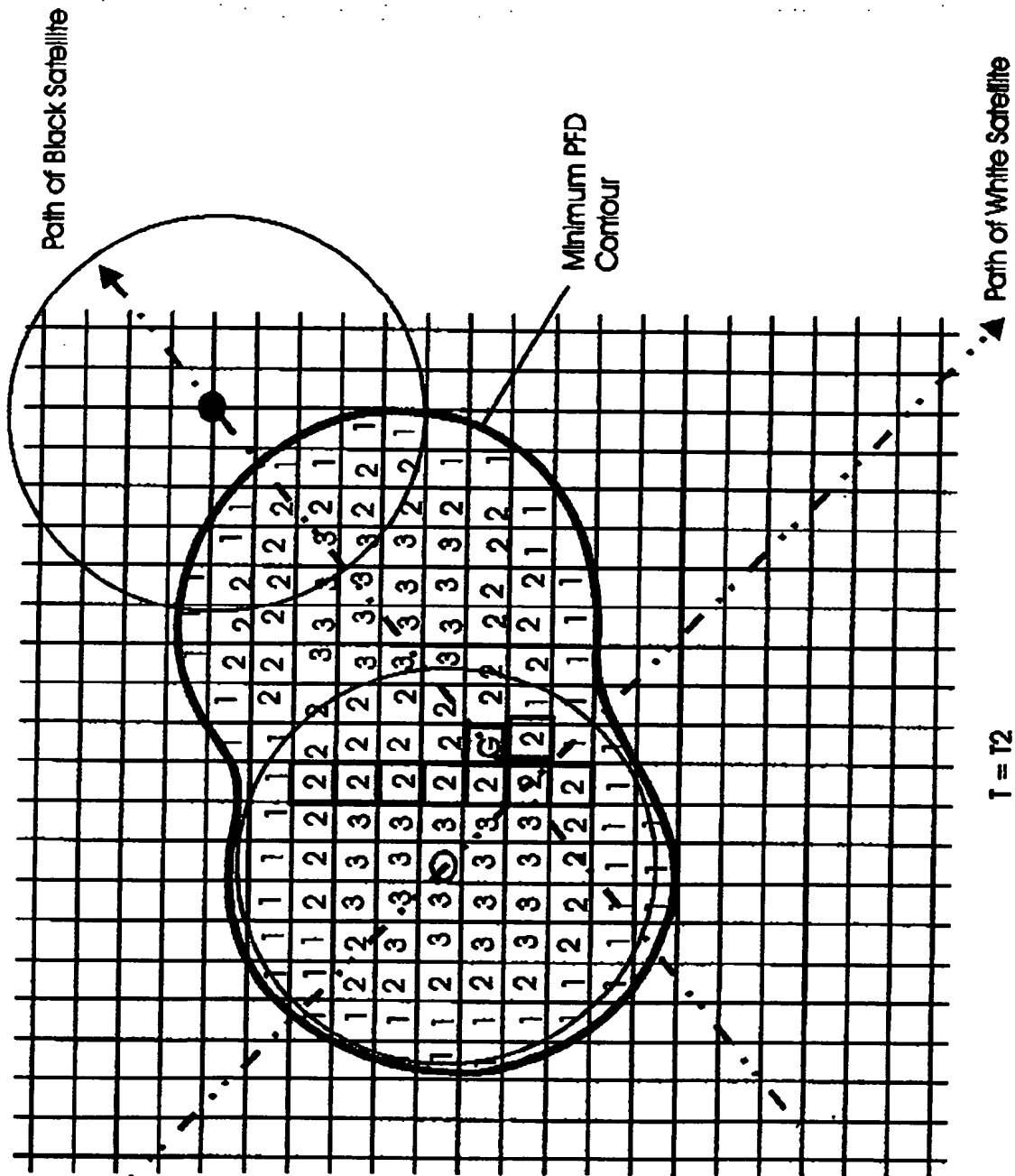
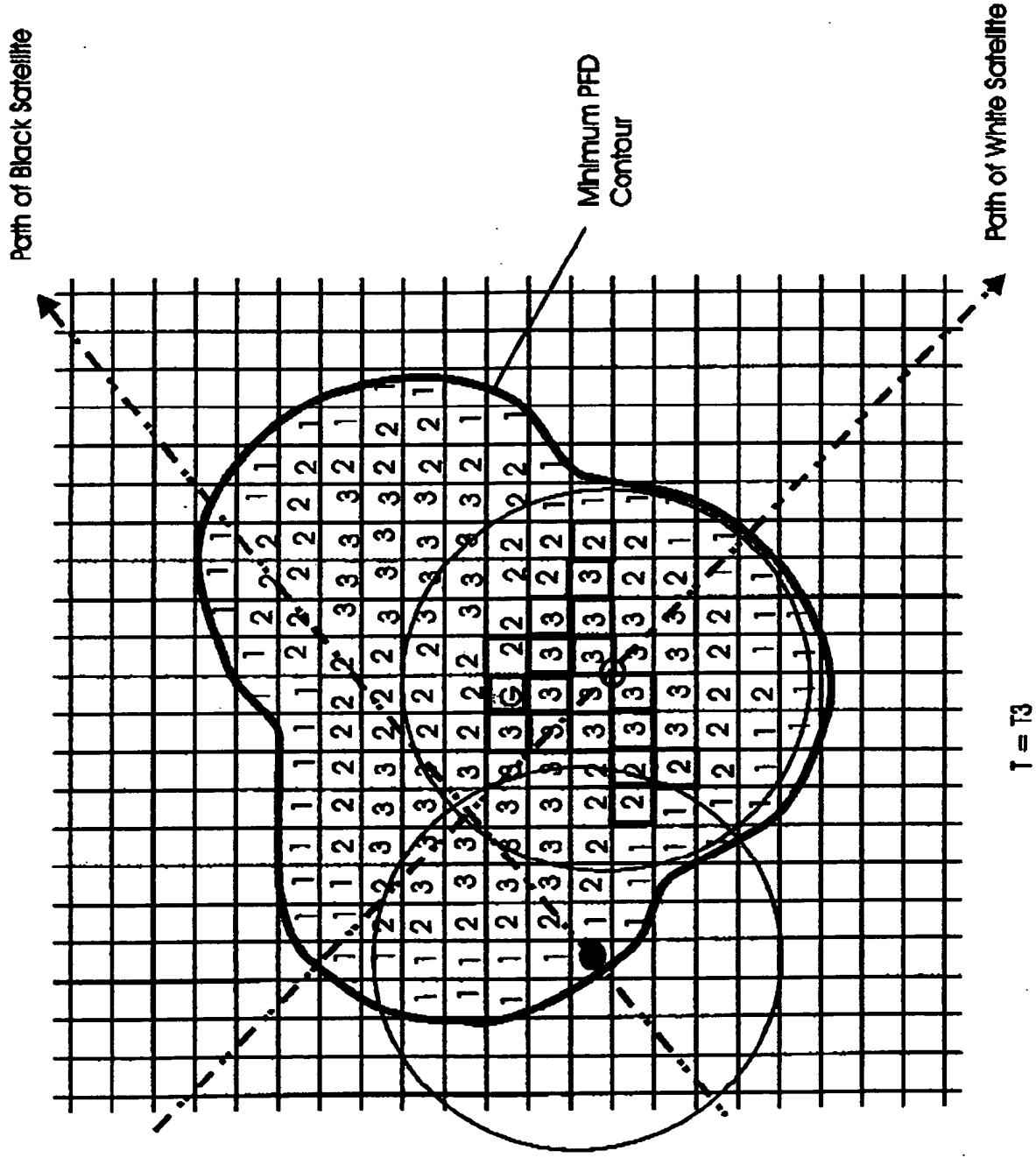


FIG. 11G



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FIG. 11H

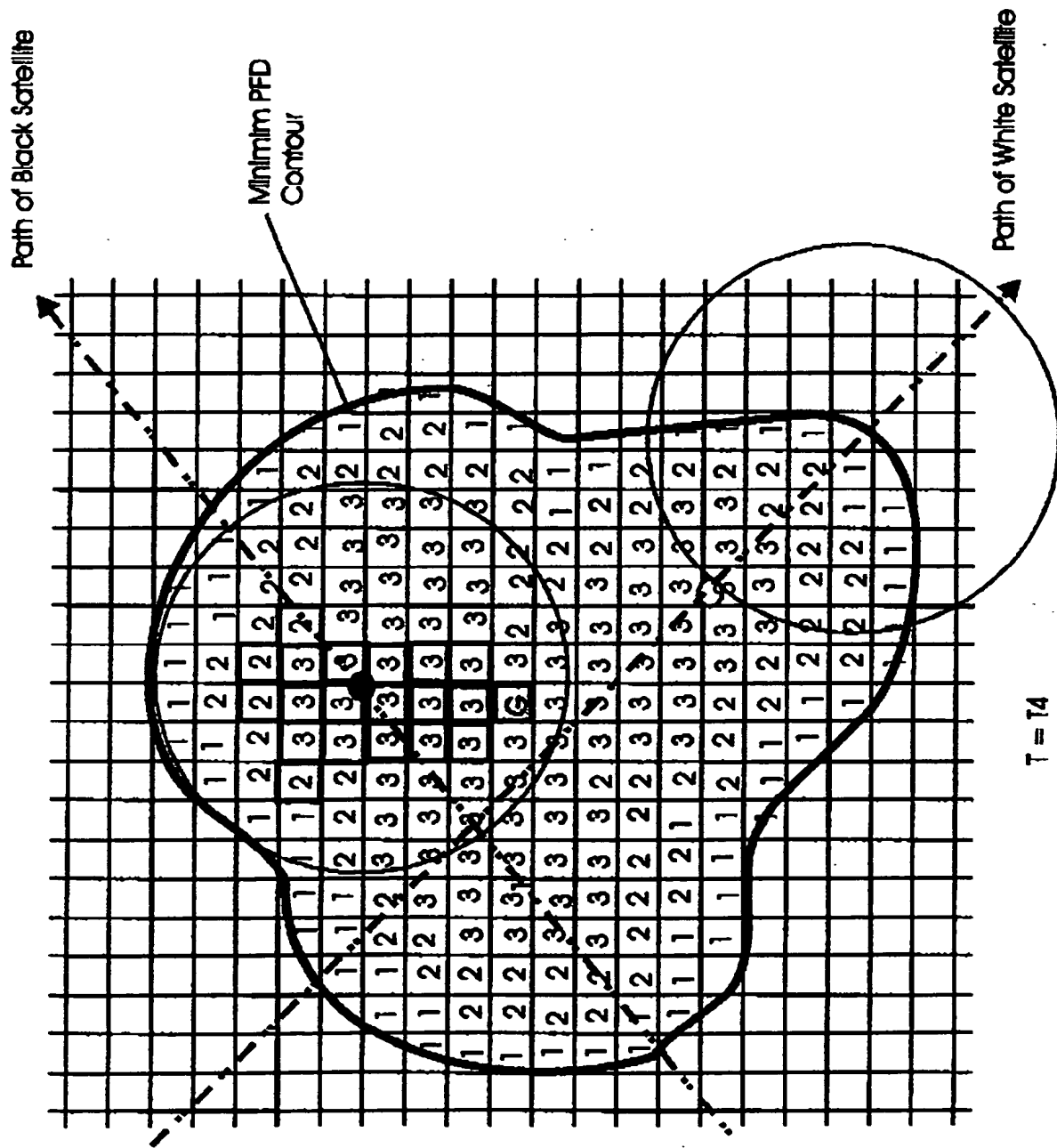


Fig. 111

